

AIM-1 OLIGONUCLEOTIDES

-Oligonucleotide primers used during Long Distance Inverse PCR -Oligo's bind to regions of AIM-1 (Mungbean ACC Synthase)

NSE-1

5' -GCGGAT¹CCATCTTGGACAACAAGGGAGTT- 3' 29'omer
Tm = 68

NSE-2

5'-TAGGATC¹CAGAAAGACACTGAGAACCGTGG- 3' 5'
30'omer
Tm = 70

NSE-3

5' -ACGGATCC'GGTGTATGTGGTTAGAGTGTG- 3'
29'omer
Tm = 62

NSE-4

5' -CAGGATC¹CAGACATAGAGTGTGACCGCAA- 3' 29'omer Tm = 66

NSF-S

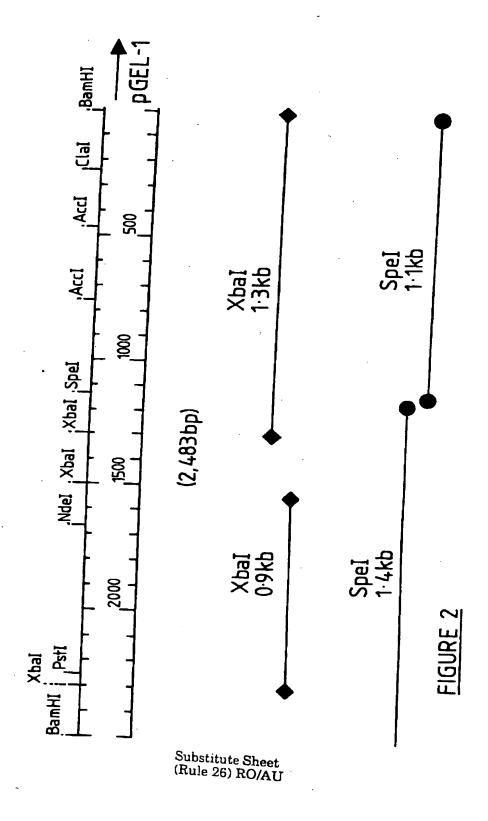
5'-ATCGATCATATGAGCTCTAGACCCGGGCTGCAGGATCC GGTGTATGTGGTTAGAGTGTG-3'
59'omer
Tm = 62
note: NSE-5 is identical to NSE-3 except different restriction enzyme sites have been incorporated
(ie. 5'-Cla I, Nde I, Sac I, Xba I, Sma I, Pst I & Bam H1-3')

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NCE 4

note: NSE-6 is identical to NSE-4 except different restriction enzyme sites have been incorporated (ie. 5'-Sac II, Bgl II, Cla I, Xho I, Eco R1, & Hind III-3')

FIGURE 1



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2100 1800 1500 1200 pGEL-1 2.5Kb promoter sequencing strategy: 900 900 300 All fragments CONSENSUS+---Spe-10F Spe-09F Spe-06R Xba-09F3 Xba-14F Spe-12R Spe-10R Spe-12F Spe-06F Xba-14R Spe-14F Xba-09F Xba-09R Spe-1.4 Spe-03

FIGURE :

PCT/AU99/00705

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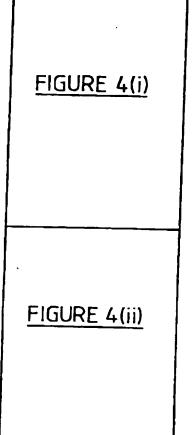


FIGURE 4

pGEL-1 2.5Kb Promoter Fragment 5/28

Length: 2470

TTACAGATAC ACAGAATCAG ACGACACATC TACTTTAATA ACAGAAAAAT 1 AATAAGTGTC GGAGATTATG GTACGACAAG ATGAAATGTT TTTATATGGT 51 TGAGATTATT TTGGTCTGTT GTTGGAAGTT TCACGAATCA TGATTTTGAT 101 TTTACGTATT AAAAAATGAA AAGTTGAATC ATGCATTTTA TCTAGAAGCT 151 GGGAACTGAA CCAAAAAAAT AGCCAGTTGA ACAACTGCAG TATTTGTAGG 201 251 CGTATTCATT TCTCCTTTCC TACAATAATC CTTGGTTGCT CTTTATCGGA AAAAAACCAA AAGCAATAGC TACTCTGTAA GGTCCTCGAT TGCCGACAAG 301 AACATCACAT GCGTGCTGTC GAAGAACACA TAATTTTGAG GTTGAAGCTC 351 ACGTGCGAGT TTTGCATATT TTTAGGTTAT GTGTACACGT ATGGAGTGAG 401 TTCCGCGTAT ATAGTGTAGG TAGTTGAGTG GCTGAGTAGC GAGTGAATCA 451 501 GGTAACACTA TCTTTTCAAG CCACCTAATT AAGGGATTTA ATGTTCATGC AACTGTTCTT CGCTAACTAA GGCCCCACTT ACCTTTATAA TATTCTCTCT 551 AACTCCGGGC TTTTGGTAAG TACAACTTTT CTACTCTTAT TTAATGGAGG 601 651 GATTATTTTT TCCATATACC AATTAATTTA TTTTTTAATT TATGCATTTT GATCTTATAT TAAAACAATT ATGGTATGGA TTAAGTCGTA TATCGGTGAC 701 AATTGAAGTT TTCCTCAAGT TTAGCCATTT TTATGAAATT AAACTTAATC 751 ACTACTATTA GGTAAATTCA TATGTATCAT TAACAATTTC AATGTGAGTT 801 CAATTTTACC CAAGATTTGA AAGTTGTTGT CAACTTCTGT TAACTAAAGT 851 TGTATTATAA GGTTGACGAC TTTAACCTAA ATCTATTTTG AATTGAAGGG 901 GTTGATGACT TCAGCTTTAA AATAATTCAA CTAAAGTTCT AGACTACATT 951 1001 GGAGATTTTA GTGTTCATAA AATTTTAGAA AAAGGCTGAG TTAAAGTTAT GAAAAAGATT GGTGACTATT CAATTAATTA GTTGTGAATT GATGACAAAT 1051 ATTTCATGAG CATAACCAAT CAGAGAAATA CCACCTCGAC CGACTACAAC 1101 AATCTCAATG TTAATTAATG AAGCATTGTA GTATAAGGAG TCTAGAATAA 1151 ATTTCTTAAA TATTAGAGGA AAACTATTTT TAAAAAATTA CAAGAAAAGT 1201 TTGATCTATA ACCTCTTTAA ACTTTAAATT ATCTAACAAT TTTCTTATGA 1251 FIGURE 4(i)

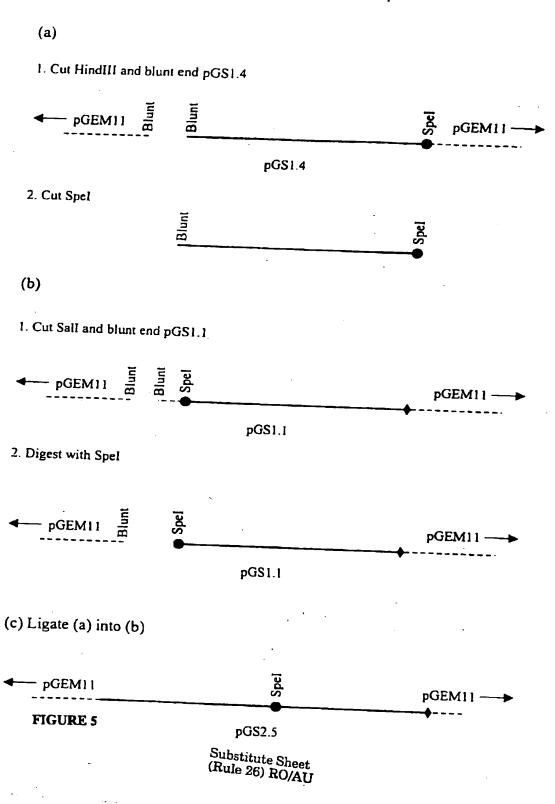
Substitute Sheet (Rule 26) RO/AU

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1301 CTCACATTGT GTTGATAGGG TGATTTTGTC AAAATATATG TCTATTTTAT
1351 ACTAGTATGA TTTGTCTGCG AATTATATAT AGTATTAACT TGGAGAAATG
1401 ATTGCCTAAT AAGTTATAAA AAAGGAGAAA ATATTTATTC ATAAAAAAAA
1451 TACACTTAAA TAAGTAACAA TAATAAAAAA CATTATATAA GAGATTAAGA
1501 TAATTTAATA AGTATTGAAT GTAGAATAAT TTTTATTTA
1551 TAAAATATTC AAATAATATT CAAAGTAAAT AATAGATATA ATTCATCATT
1601 CAATACGAGT AATTCAATCT ATTATAATCC ATATATTAGA TAAATATACA
1651 AATATTTGTT AAATTTTACA TTATTATATT ACTAAATATA TATTAATTTC
1701 CTTTGAATAT CTTTTATACA AGTAGGTAGA CTAGAAGAAT TATCTTATCT
1751 CCCGTATATT TGTAGATGTT AAATGTAACG GGCTTAGACT GATGTTTTTG
1801 TATTATATTA TTTATAAATC CATTAGAGAT TTAAGTTAAT GTCTCTCTTT
1851 GATTTTAAAC ATGGTCTAAA AATTAGGTTT AATCATTGCG TCCTCAATGA
1901 ACCCATGCTA TATGTTTTAA AGTTTTTTGT TTTTTGACAA TGTTTTTTAT
1951 TTCTGAGATT GCTCTTAGGA TTGAAATTAT GTTTGATACT AGAAAACGAA
2001 GAAGTAGAGA GTAGTGTATA CACGTGTAAA AAATAATAGT TGTGGGAACT
2051 TAAGTTGGAT TTGAATACTA GGACGAGGCT GGAAGGGTTT CCACTAAGTT
2101 GACAAAATT ATTACAAGTG GCAACTAGCT AGGTCTCACA AAGTATTACT
2151 AATTAATAGT GGGTCTGTCT GCATACCAAC TCTTGCCTAA TTTTCAAACA
2201 CCGCATTCTC TCTTCTTCTC TCCTTCTTCC TCTGGAAACT TCATCGATGT
2251 GGACTTCTGT CTCTCAAAAG TCAAGCTCAA TTTATCCAAT GCATTATAAA
2301 TACACACTCT CCCTCCCTTC TATTCTTCAT TGCATCACAT TTCCTCTATA
2351 AATTACTCAC ACCTTATTCC TAACTTCATT TCAACATCCT CTCTCCCACT
2401 TACTTCGATT TCATCAATTC CAATAAACTC AACACACTTT TTTACACTCC
2451 ACACTCTAAC CACATACACC

FIGURE 4(ii)

7/28 Reconstruction of 2.5 kb pGEL-1 promoter



1GURE 6A(i)

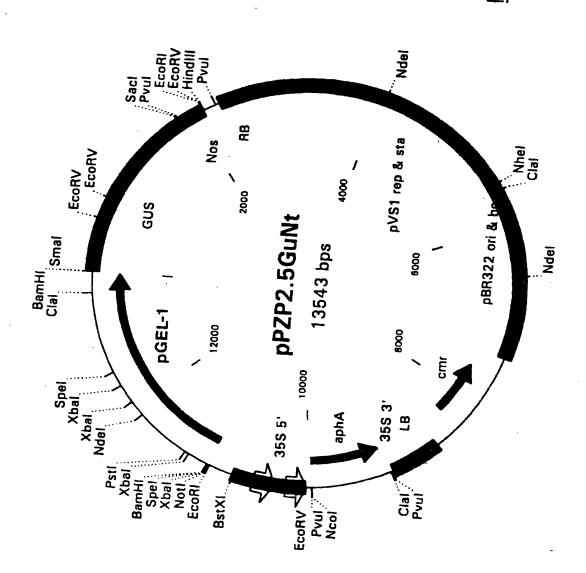
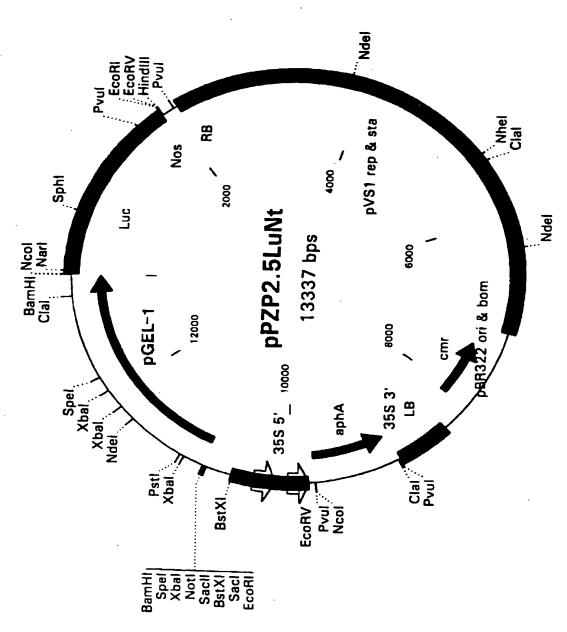
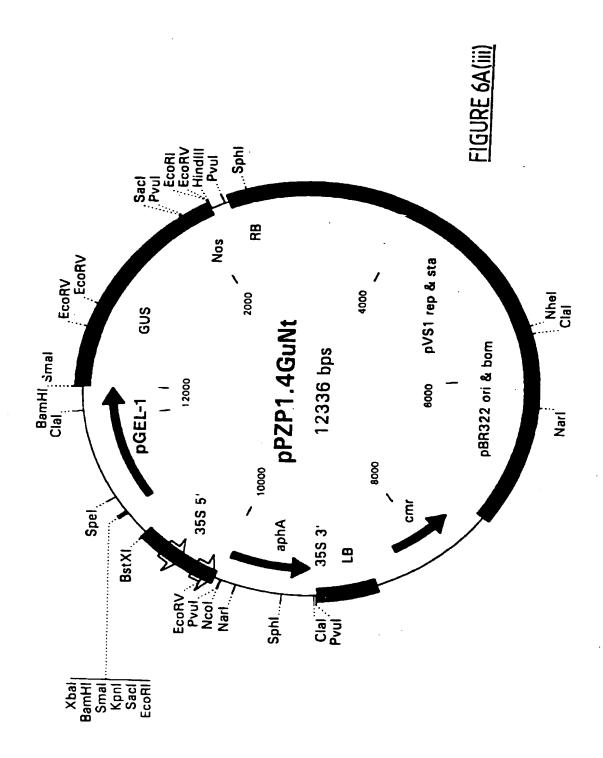
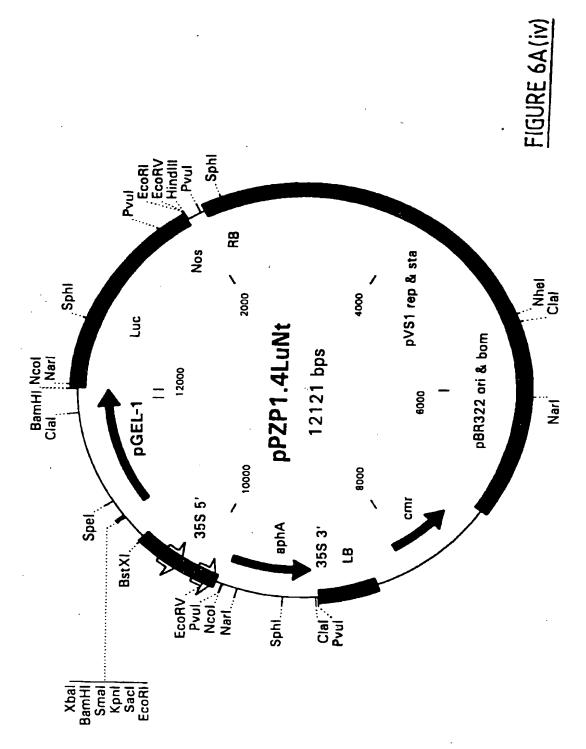


FIGURE 6A(ii)

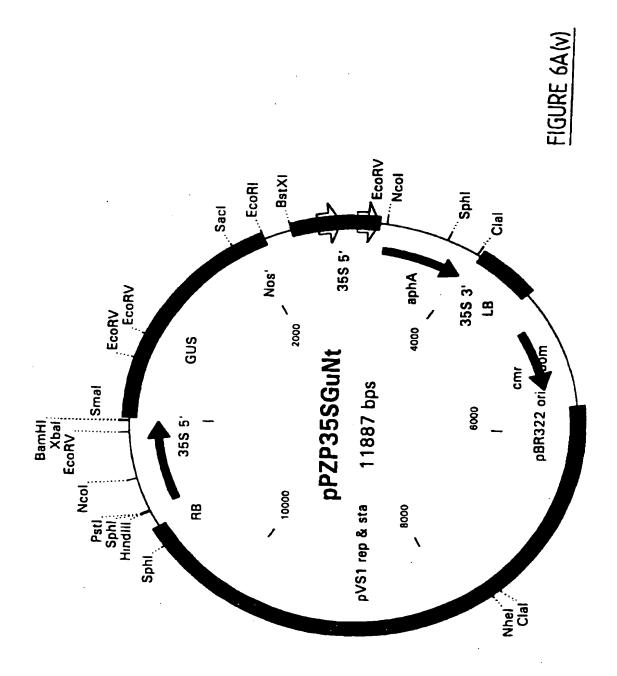




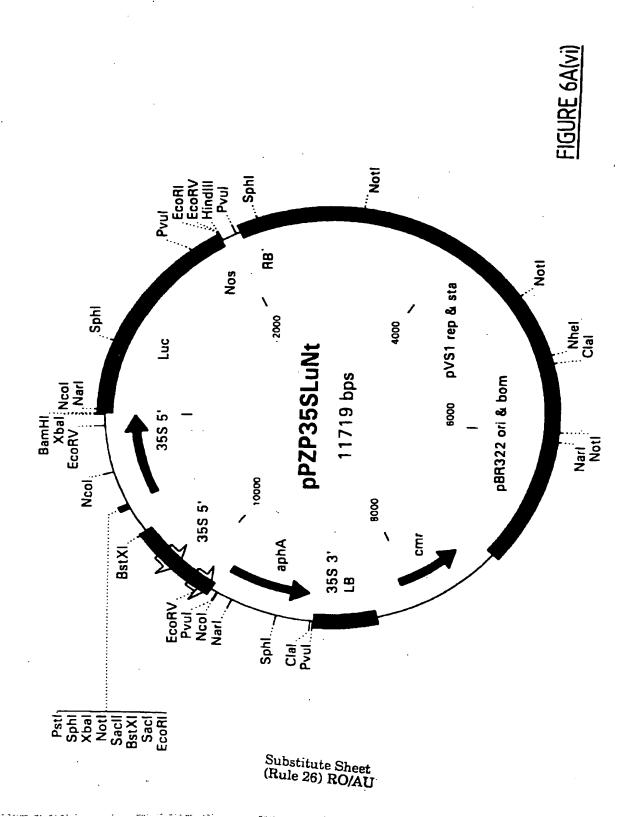
Substitute Sheet (Rule 26) RO/AU



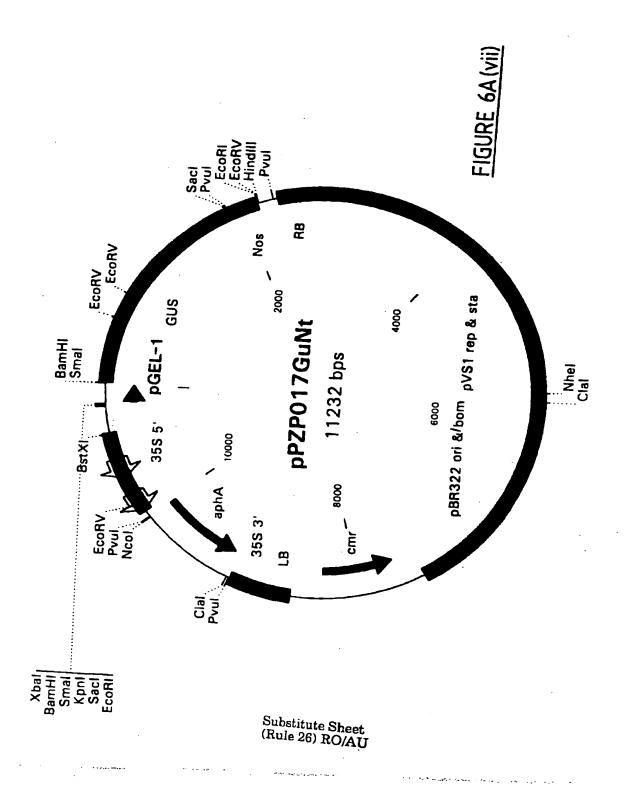
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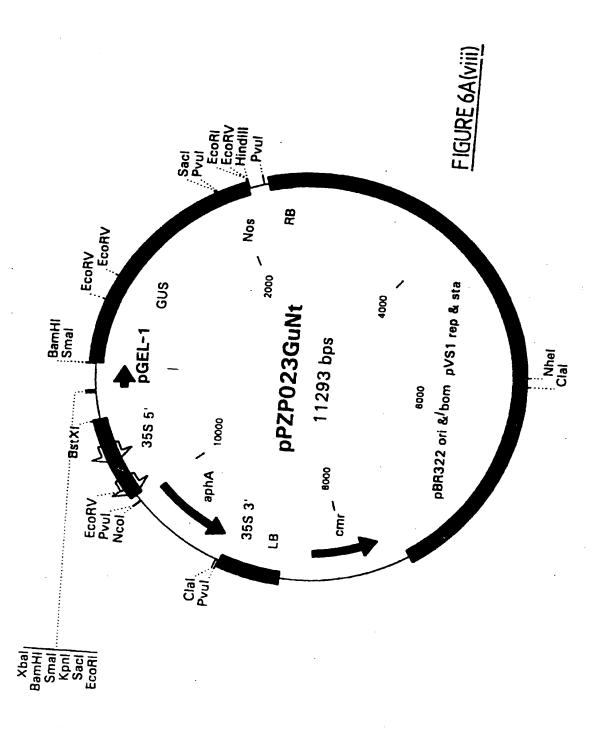
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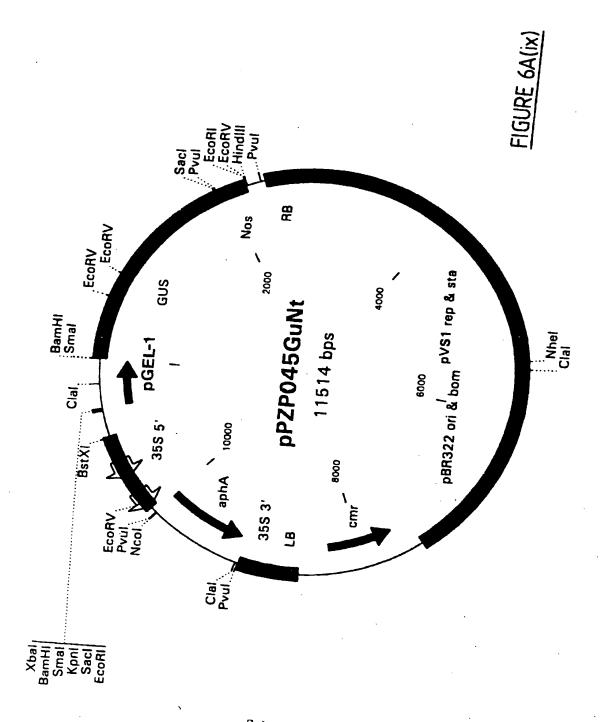


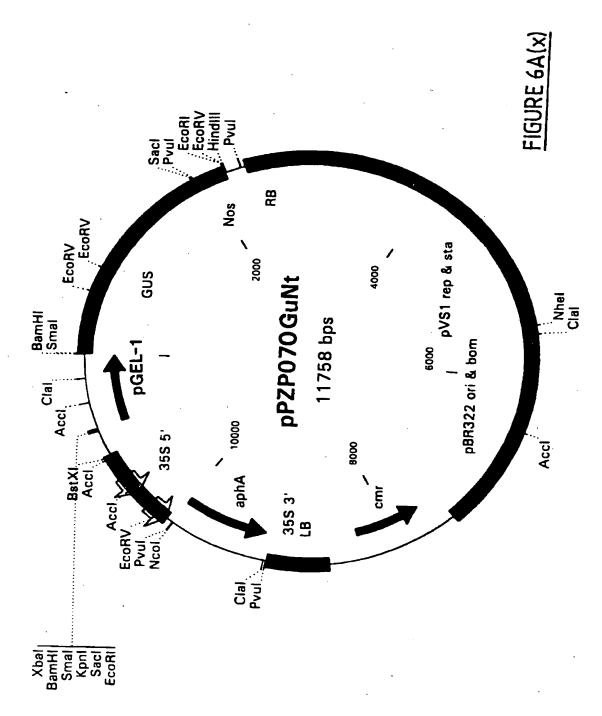
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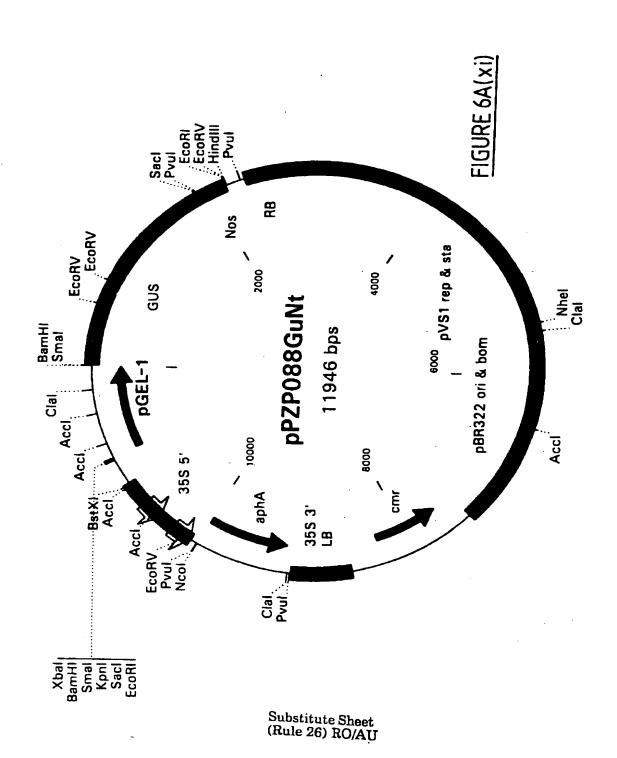
15/28

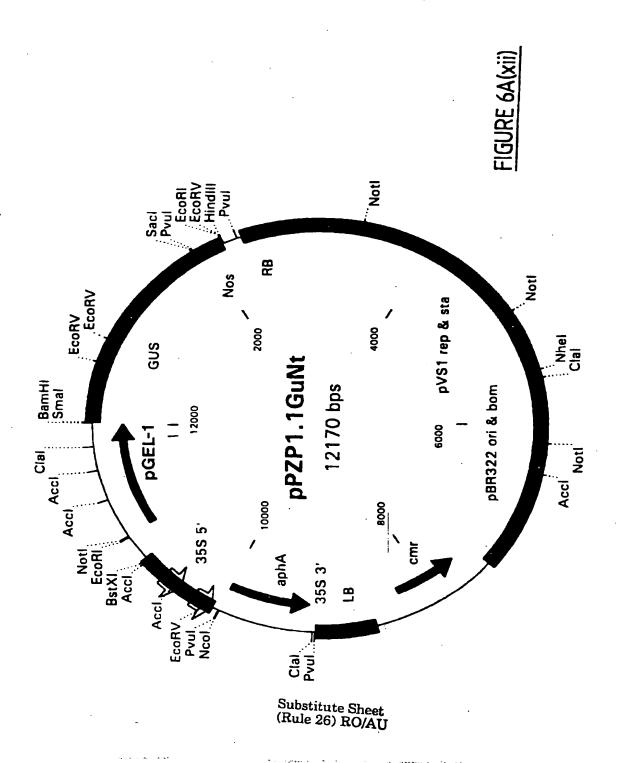


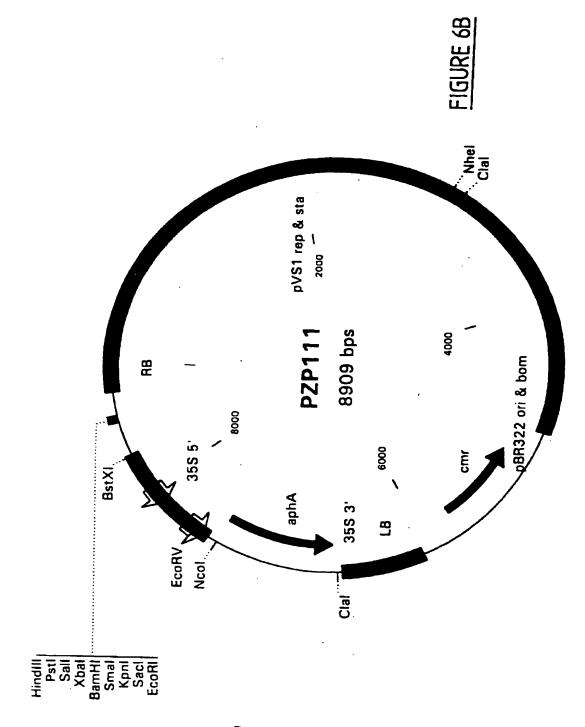




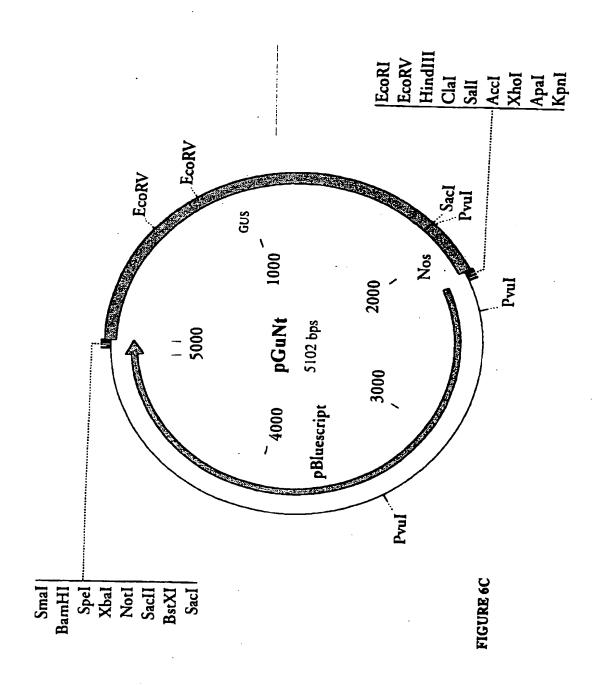
Substitute Sheet (Rule 26) RO/AU



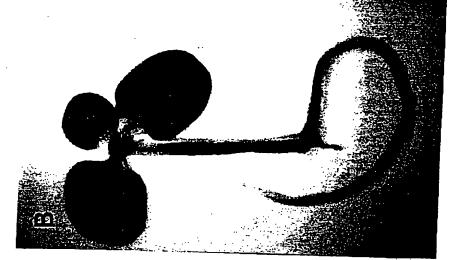




Substitute Sheet (Rule 26) RO/AU





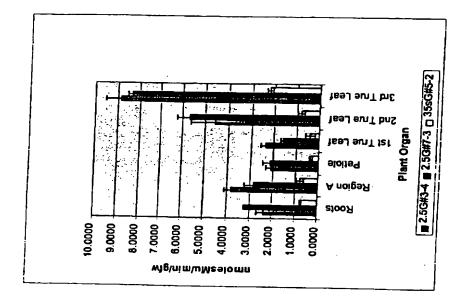




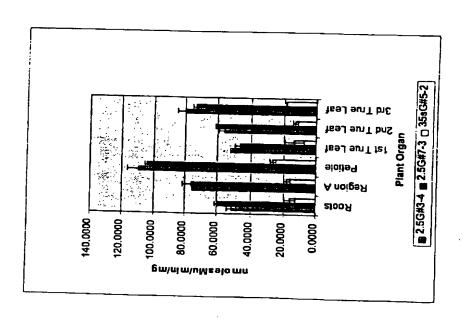


Substitute Sheet (Rule 26) RO/AU

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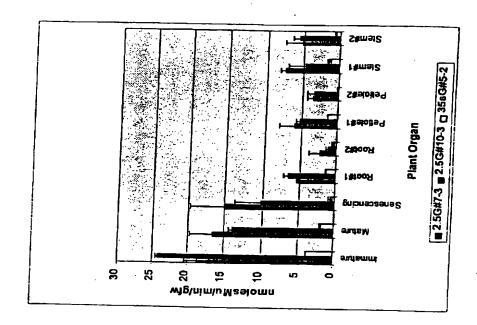
GURE 8B



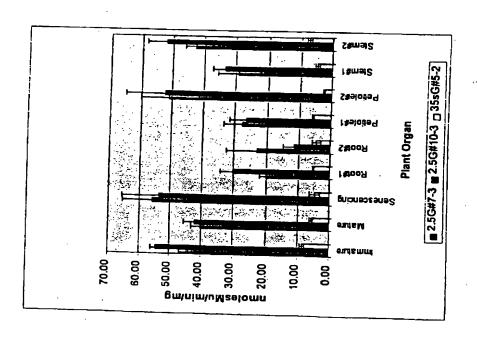
IGURE 8A

Substitute Sheet (Rule 26) RO/AU

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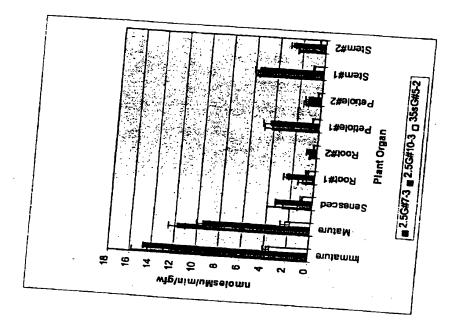


-IGURE 98

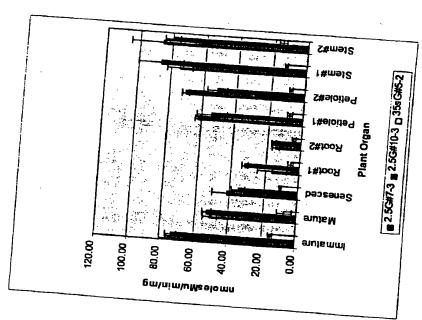


IGURE 9A

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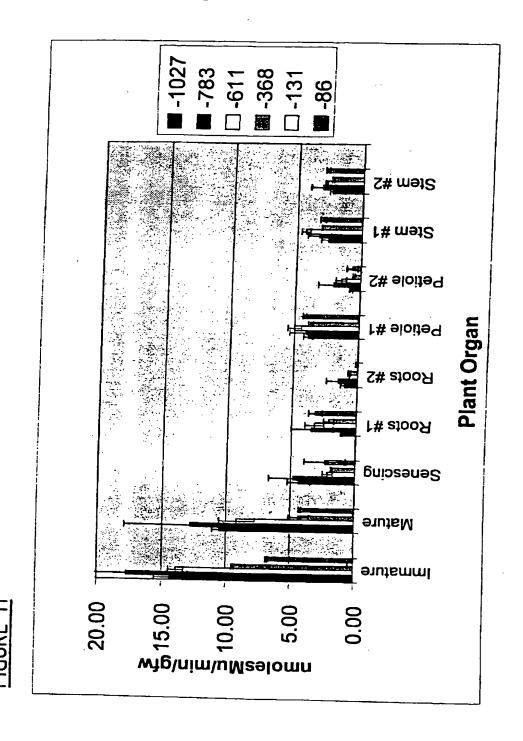


-1GURE 10B



IGURE 10A

Substitute Sheet (Rule 26) RO/AU



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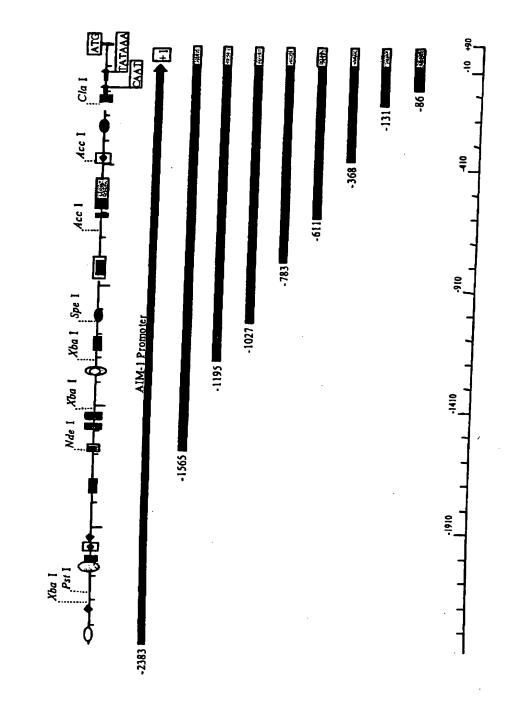


FIGURE 12

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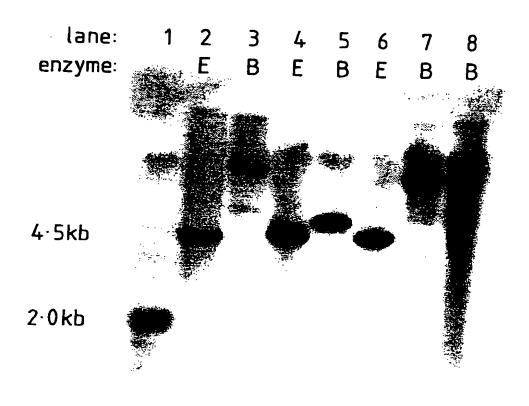


FIGURE 13